

Mouse anti-SUDV GP mAb (16F6)

Catalog #: 0280-001

Lot #: 2305004

Description:

Purified mouse monoclonal antibody 16F6 that binds to a conformation epitope on Sudan virus (SUDV) glycoprotein (GP). This antibody demonstrates protection against SUDV both *in vitro* and *in vivo* (Dias et al., 2011 Nov 20, *Nat Struct Mol Biol.* 18 (12): 1424-1427).

Immunogen/ Target:

Venezuelan equine encephalitis virus replicons encoding SUDV GP and gamma-radiation-inactivated SUDV-Boniface were used to generate the original mouse monoclonal antibody.

Formulation & Storage: Supplied in PBS in frozen format with no preservatives added. **Store at +4°C** for 2-3 weeks; -80°C for long-term

Notes & Usage Guidelines:

Clonality/Isotype: Monoclonal; IgG1

Host: Mouse

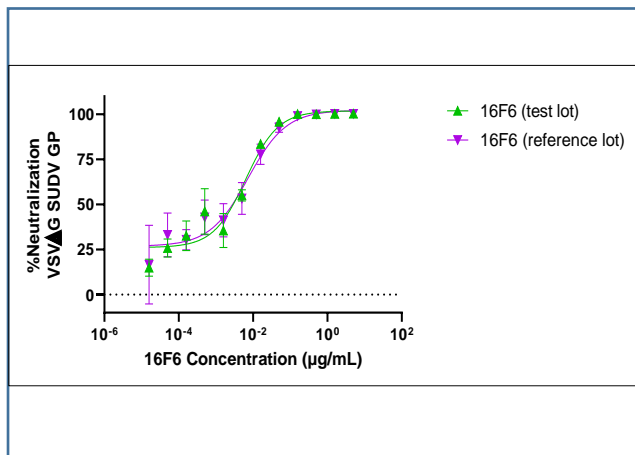
ELISA: Assay-dependent dilution

WB: Not recommended

Applications

Neutralization Data:

Anti-SUDV mouse mAb 16F6, starting at 5 µg/mL followed by serial dilutions, was incubated with the VSV pseudotyped with SUDV GP (SUDV-VSV) containing luciferase gene for one hour prior to adding to Vero cells. Infectivity was determined the next day by assessing luciferase activity. We found that 6.37 ng/mL of 16F6 lot 2210001 reduced infectivity of SUDV-VSV by 50% and 1 µg/mL of 16F6 neutralized 100%.



ELISA Data:

VLP's were diluted to 10 µg/mL in PBS and coated on MaxiSorp™ plates. Anti-SUDV GP mouse mAb 16F6 was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-mouse IgG-HRP conjugate and TMB substrate. OD₆₅₀ is reported below.

16F6 concentration (µg/mL)	Coating antigen: 10 µg/well of virus-like particles (VLP)		
	SUDV VLP	EBOV VLP	MARV VLP
10.0000	2.005	0.053	0.060
3.1620	1.939	0.049	0.057
1.0000	1.920	0.049	0.056
0.3160	1.856	0.050	0.051
0.1000	1.428	0.055	0.046
0.0320	0.940	0.047	0.050
0.0100	0.500	0.052	0.048
0.0300	0.220	0.049	0.044
0.0010	0.109	0.056	0.061
0.0000	0.073	0.045	0.051

Certificate of Testing for:

Lot#: **2305004**

Volume: 100 µg

Concentration: 0.898 mg/mL

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